

ABSTRACT

An optoelectronic receiver having a variable transfer function to compensate for operational condition change. The receiver comprises a linear circuit having a tunable filter. A control circuit provides a signal to the tunable filter. The control circuit is connected to one or more sensors which sense one or more operational conditions. The control circuit signal is a function of the one or more sensed operational conditions. The control signal is input to the tunable filter which adjusts the linear circuit's transfer function based on the control signal. Further disclosed are an integrated circuit and optical communication system having the inventive optoelectronic receiver. A method for adjusting an optoelectronic signal in a receiver is also disclosed.